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**Deborah Merrill, Branch Head**

**NORTH CAROLINA AREA PROGRAMS  
ANNUAL ADMISSION REPORT**



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**North Carolina  
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## **PREFACE**

This is the 2001-02 fiscal year report on the characteristics of all admissions to North Carolina's 39 Area Programs. Data are grouped by client admissions or by each of the four regions, with the exception of Table III that is presented by area.

The characteristics included are: diagnostic category, type admission, age, sex, race, marital status, source of referral, employment status, income and education. Also, included is one table with selected characteristics for all terminations; in particular, diagnostic category, race, age and sex. The report will provide a baseline of data for the review of trends and patterns (see figure 1) in admissions among regions and for the state as a whole.

## **INTRODUCTION**

This report summarizes characteristics of all admissions to North Carolina's 39 Area Programs for the fiscal year 2001-2002. Information provided in the report is based on client data submitted to the Division's Data Operations. The data is stored in the Division of Mental Health, Developmental Disabilities and Substance Abuse Service's Client Data Warehouse (CDW).

Table I through Table III depicts characteristics for the 87,857 total admissions during fiscal year 2001-02. For more detailed statistics refer to the **Annual Statistics Reports, Area Programs, Fiscal Year 2001-2002**.

Table IV depicts selected characteristics for the 86,607 discharges which occurred during fiscal year 2001-2002. This table is included to allow comparisons between diagnosis at admission and termination.

**FIGURE 1**  
**SELECTED CHARACTERISTICS OF ADMISSIONS AND PERCENT CHANGE OVER TIME**  
**STATE TOTAL FISCAL YEAR 1997-98, 1998-99, 1999-00, 2000-01, 2000-02**

CHARACTERISTICS	FY98	FY99	FY00	FY01	FY02	PERCENT		
						FY02 vs. FY01	FY02 vs. FY00	FY01 vs. FY98
<b>TOTAL ADMISSIONS</b>	112,101	105,981	86,707	87,474	87,857	0.4%	1.3%	-21.6%
<b>BY DIAGNOSIS</b>								
ALCOHOL	21,852	19,938	13,422	13,430	13,846	3.1%	3.2%	-36.6%
DRUG	19,735	19,079	12,942	13,210	14,530	10.0%	12.3%	-26.4%
MENTAL RETARDATION	1,412	1,258	830	745	759	1.9%	-8.6%	-46.2%
MENTALLY ILL	57,433	53,359	41,223	43,746	52,469	19.9%	27.3%	-8.6%
NO MENTAL DISORDER	429	438	166	90	117	30.0%	-29.5%	-72.7%
UNKNOWN-DEFERRED	11,240	11,909	18,124	16,253	6,136	-62.2%	-66.1%	-45.4%
<b>BY SEX</b>								
MALE	65,161	61,803	49,679	49,521	49,077	-0.9%	-1.2%	-24.7%
FEMALE	46,940	44,178	36,228	37,953	38,763	2.1%	7.0%	-17.4%
<b>BY RACE</b>								
WHITE	66,341	62,520	52,201	52,993	54,714	3.2%	4.8%	-17.5%
BLACK	42,484	39,925	27,782	28,475	28,233	-0.8%	1.6%	-33.5%
AMERICAN INDIAN	1,518	1,662	1,025	1,379	1,179	-14.5%	15.0%	-22.3%
OTHER	777	1,034	2,517	2,603	3,116	19.7%	23.8%	301.0%
ASIAN/PACIFIC ISLANDER	250	232	273	251	255	1.6%	-6.6%	2.0%
UNKNOWN	731	608	2,909	1,773	360	-79.7%	-87.6%	-50.8%

**FIGURE 1A**  
**AGE CHARACTERISTICS OF ADMISSIONS AND PERCENT CHANGE OVER TIME**  
**STATE TOTAL FISCAL YEAR 1997-98, 1998-99, 1999-00, 2000-01, 2001-02**

CHARACTERISTICS	FY98	FY99	FY00	FY01	FY02	PERCENT		
						FY02 vs. FY01	FY02 vs. FY01	FY01 vs. FY98
<b>TOTAL ADMISSIONS</b>	112,101	105,981	86,707	87,474	87,857	0.4%	1.3%	-21.6%
<b>BY AGE</b>								
00-04	6,309	6,448	3,831	4,354	4,658	7.0%	21.6%	-26.2%
05-09	9,525	8,989	5,702	6,227	6,399	2.8%	12.2%	-32.8%
10-14	10,935	10,071	7,951	8,491	8,314	-2.1%	4.6%	-24.0%
15-17	7,500	6,866	6,431	6,700	6,905	3.1%	7.4%	-7.9%
18-20	5,035	5,152	4,633	4,283	4,421	3.2%	-4.6%	-12.2%
21-24	7,419	7,134	6,325	6,535	6,892	5.5%	9.0%	-7.1%
25-34	24,908	22,861	17,043	16,852	16,992	0.8%	-0.3%	-31.8%
35-44	23,615	22,734	18,731	18,440	17,746	-3.8%	-5.3%	-24.9%
45-54	10,359	9,864	10,212	10,012	10,248	2.4%	0.4%	-1.1%
55-64	3,654	3,307	3,482	3,264	3,329	2.0%	-4.4%	-8.9%
65 AND OVER	2,842	2,555	2,366	2,316	1,953	-15.7%	-17.5%	-31.3%

## **TABLE I**

The data reflected in this table included admissions by diagnosis, type of admission and marital status. The aggregate groupings of diagnosis are based on the DSM IV, **Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition**, (American Psychiatric Association, 1994).

Of the diagnosis reported at the time of admission, alcohol abuse accounted for the largest group (15.7%). However, when looking at Psychiatric Diagnosis only, which represented 45.5% percent of all diagnosis, major depressive disorders (15.1%) accounted for the most frequent diagnosis. Clients diagnosed with mental retardation accounted for less than one percent (0.9%) of all admissions while drug abuse (exclusion of alcohol) accounted for 16.5 percent.

In the marital category the largest group are those who are single, representing 62.0 percent of all admissions. This is fairly consistent across all regions.

**TABLE I**  
**TOTAL ADMISSIONS BY DIAGNOSTIC CATEGORY, TYPE ADMISSION & MARITAL STATUS**  
**NORTH CAROLINA'S 39 AREA PROGRAMS BY REGION, FY2001-02**

	TOTAL		WESTERN	NORTH CENTRAL	SOUTH CENTRAL	EASTERN
	*PERCENT	NUMBER				
<b>TOTAL ADMISSIONS</b>	100.0%	87,857	28,085	21,891	17,847	20,034
<b>DIAGNOSTIC CATEGORY **</b>						
MENTAL RETARDATION	0.9%	759	204	203	139	213
ATTENTION DEFICIT	4.1%	3,622	1,092	776	731	1,023
CONDUCT	5.3%	4,677	1,639	1,047	791	1,200
AUTISM & PERVASIVE DEV.	0.3%	239	47	56	74	62
SPECIFIC DEVELOPMENT	1.0%	892	406	244	92	150
OTHER CHILDHOOD DISORDERS	3.5%	3,066	441	620	1,094	911
EATING AND SLEEPING DISORDERS	0.1%	78	33	23	11	11
MEDICATION INDUCED	0.0%	5	0	1	0	4
PRIMARY DEGENERATIVE DEMENTIA	0.2%	145	21	56	32	36
VASCULAR DEMENTIA	0.1%	117	35	44	9	29
SUBSTANCE ABUSE (DRUGS)	16.5%	14,530	4,467	3,980	3,199	2,884
ALCOHOL ABUSE	15.3%	13,474	3,706	3,341	2,779	3,648
ALCOHOL RELATED ORGANIC	0.4%	372	173	44	123	32
OTHER MENTAL DISORDERS	0.6%	554	182	113	118	141
SCHIZOPHRENIC	1.4%	1,238	342	264	270	362
SCHIZOPHRENIFORM	0.1%	46	9	16	16	5
SCHIZOAFFECTIVE	0.8%	674	188	148	189	149
DELUSIONAL	0.1%	113	25	31	31	26
OTHER PSYCHOTIC	1.1%	1,009	279	246	234	250
BIPOLAR	3.2%	2,837	950	660	630	597
MAJOR DEPRESSIVE	15.1%	13,273	4,270	3,150	2,868	2,985
DYSTHYMIA	2.0%	1,744	476	323	393	552
ANXIETY	5.1%	4,471	1,548	1,095	803	1,025
SOMATOFORM/FACTITIOUS	0.1%	66	19	10	21	16
DISSOCIATIVE	0.0%	18	7	4	3	4
SEXUAL	0.1%	124	39	21	30	34
PERSONALITY & OTHER IMPULSES	1.1%	980	327	229	134	290
ADJUSTMENT	9.4%	8,280	2,837	2,081	1,626	1,736
OTHER NONPSYCHOTIC/MENTAL	0.8%	740	331	175	123	111
OTHER PROBLEMS NOT MENTAL	3.7%	3,281	760	1,187	583	751
NO MENTAL DISORDER	0.1%	117	38	58	6	15
DIAGNOSIS DEFERRED	0.2%	180	20	118	15	27
UNKNOWN	7.0%	6,136	3,174	1,527	680	755
<b>MARITAL STATUS</b>						
SINGLE	62.0%	54,473	17,206	13,802	11,139	12,326
MARRIED	15.9%	13,989	4,476	3,314	2,919	3,280
DIVORCED	11.0%	9,626	3,336	2,313	1,863	2,114
ANNULLED	0.3%	275	45	215	5	10
DOMESTIC PARTNER	0.2%	150	52	11	43	44
SEPARATED	8.0%	6,996	2,269	1,606	1,446	1,675
WIDOWED	2.1%	1,876	554	433	403	486
UNKNOWN	0.5%	472	147	197	29	99

\*TOTALS DO NOT ALWAYS EQUAL 100 % DUE TO ROUNDING

\*\* DERIVED FROM DSM-IV CODING



## **TABLE II**

The data in this table reflects admission characteristics by race, sex and age categories.

Males represented a majority of the total admissions (56%) with females representing 44 percent of the total admissions. This indicates that females are somewhat under represented since they accounted for 51.0 percent of the total population in the 2001 census. Males accounted for the majority of the total admissions across the four regions.

When looking at race categories during FY02 non-white admissions numbered 32,783 or 37.2 percent of the total reported. Of the non-white admissions reported 1.3 percent were American Indian.

The age group composition of area program admissions reflects that 19.3 percent fell within the 25 to 34 age group. When admissions are grouped by the three major age groups, 30 percent were 0-17, 67.8 percent were between 18-64 and 2.2 percent were 65 years and older.

According to the 2002 Census, the age distribution for the State population as a whole was children 24.4 percent, adult 63.6 percent and the elderly 12.0 percent.

**TABLE II**  
**TOTAL ADMISSIONS BY RACE,SEX AND AGE**  
**NORTH CAROLINA'S 39 AREA PROGRAMS**  
**BY REGION, FY2001-02**

	TOTAL		WESTERN	NORTH CENTRAL	SOUTH CENTRAL	EASTERN
	*PERCENT	NUMBER				
<b>TOTAL ADMISSIONS</b>	100.0%	87,857	28,085	21,891	17,847	20,034
<b>RACE</b>						
WHITE	62.3%	54,714	21,034	12,857	10,247	10,576
BLACK	32.1%	28,233	6,032	7,699	5,945	8,557
AMERICAN INDIAN	1.3%	1,179	214	70	749	146
ASIAN/PACIFIC ISLANDER	0.3%	255	81	72	66	36
OTHER	3.5%	3,116	556	1,046	823	691
UNKNOWN	0.4%	360	168	147	17	28
<b>SEX</b>						
MALE	55.9%	49,077	15,444	12,343	9,925	11,365
FEMALE	44.1%	38,763	12,638	9,534	7,922	8,669
UNKNOWN	0.0%	17	3	14	0	0
<b>AGE</b>						
00-04	5.3%	4,658	1,281	981	1,265	1,131
05-09	7.3%	6,399	1,937	1,961	1,092	1,409
10-14	9.5%	8,314	2,789	1,971	1,622	1,932
15-17	7.9%	6,905	2,342	1,582	1,518	1,463
18-20	5.0%	4,421	1,447	1,088	913	973
21-24	7.8%	6,892	2,162	1,791	1,360	1,579
25-34	19.3%	16,992	5,482	4,340	3,478	3,692
35-44	20.2%	17,746	5,777	4,403	3,561	4,005
45-54	11.7%	10,248	3,225	2,467	2,009	2,547
55-64	3.8%	3,329	1,114	755	636	824
65 AND OVER	2.2%	1,953	529	552	393	479

\*TOTALS DO NOT ALWAYS EQUAL 100 % DUE TO ROUNDING

Figure 3 indicates that children ages 0-17 have the highest admission rate (1,290 per 100,000 child population) with adults second (977 per 100,000 adult population).

Figure 3

**\*ADMISSION RATES PER 100,000 POPULATION**

**BY AGE GROUP BY REGION, FY2001-02**

REGION	TOTAL	CHILDREN (0-17)	ADULT (18-65)
WESTERN	1,259	1,259	938
N.CENTRAL	1,406	1,406	1,048
S.CENTRAL	1,051	828	886
EASTERN	1,528	1,141	1,233
STATE	1,290	977	1,054

\* Admission Rate = ( Admissions/Population) x 100,000

### **TABLE III**

The data presented in Table III reflect admissions by Area Program by each disability/age group. Table III was added to the Admissions Characteristics Report because of the need for a quick reference for data by disability and age group for specific Area Programs.

Sixty-six percent (57,591) of all admissions were mental health, 2 percent (1,890) were developmentally disabled and 32 percent (28,376) were substance abuse clients. The Western Region accounted for 32 percent (28,085) of admissions. The remaining regions each average approximately 23 percent of admissions per region. The North Central Region accounted for 25 percent (21,891), the South Central Region 20 percent (17,847), and the Eastern Region accounted for 23 percent (20,034). Among Area Programs, Guilford had the greatest number of admissions (5,784) and Riverstone has the fewest admissions (644).

**TABLE III**  
**NUMBER OF ADMISSIONS BY AGE DISABILITY**  
**NORTH CAROLINA'S 39 AREA PROGRAMS**  
**BY REGION, FY2001-02**

AREA PROGRAM	TOTAL	MENTALLY ILL			DEVELOPMENTAL DISABILITIES			SUBSTANCE ABUSE		
	ADMS.	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD
<b><u>Western Region</u></b>										
Blue Ridge	3,698	1,746	668	1,078	207	160	47	1,745	138	1,607
Catawba	2,625	1,632	636	996	20	7	13	973	69	904
Foothills	1,417	1,025	311	714	17	7	10	375	16	359
Gaston-Lincoln	5,191	3,491	1,530	1,961	290	251	39	1,410	63	1,347
Mecklenburg	4,696	3,087	1,083	2,004	3	2	1	1,606	49	1,557
New River	1,723	1,267	523	744	8	3	5	448	26	422
Piedmont	3,214	2,647	1,064	1,583	34	16	18	533	66	467
Rutherford-Polk	1,157	938	331	607	17	12	5	202	5	197
Smoky Mountain	3,201	2,467	931	1,536	37	17	20	697	21	676
Trend	1,163	782	322	460	24	17	7	357	5	352
<b><u>N.C. Region</u></b>										
Alamance-Caswell	1,900	1,412	506	906	3	1	2	485	31	454
CenterPoint	4,304	2,007	941	1,066	71	18	53	2,226	151	2,075
Crossroads	3,788	2,921	928	1,993	50	17	33	817	57	760
Durham	1,116	714	325	389	43	24	19	359	7	352
Guilford	5,784	3,574	1,211	2,363	248	214	34	1,962	70	1,892
O-P-C	1,357	757	356	401	35	17	18	565	14	551
Rockingham	2,056	1,510	1,053	457	32	27	5	514	46	468
V-G-F-W	1,586	1,128	461	667	21	4	17	437	16	421
<b><u>S.C. Region</u></b>										
Cumberland	3,328	1,964	600	1,364	53	45	8	1,311	79	1,232
Davidson	2,149	1,425	559	866	17	8	9	707	86	621
Johnston	1,317	1,112	375	737	12	9	3	193	20	173
Lee-Harrett	1,463	1,108	351	757	19	5	14	336	23	313
Randolph	1,837	1,425	681	744	13	6	7	399	16	383
Sandhills	2,702	1,710	992	718	25	13	12	967	144	823
Southeastern Reg	1,756	1,118	504	614	28	7	21	610	39	571
Wake	3,295	1,579	706	873	138	101	37	1,578	128	1,450
<b><u>Eastern Region</u></b>										
Albemarle	1,866	1,352	404	948	26	10	16	488	5	483
Duplin Sampson	1,599	1,032	428	604	37	18	19	530	11	519
Edgecombe-Nash	2,520	1,620	768	852	32	8	24	868	34	834
Lenior	795	505	264	241	14	3	11	276	61	215
Neuse	1,412	926	349	577	50	33	17	436	18	418
Onslow	1,045	543	115	428	73	64	9	429	7	422
Pitt	1,938	955	320	635	28	14	14	955	101	854
River Stone	644	509	232	277	9	4	5	126	3	123
Roanoke Chowan	1,240	875	414	461	28	24	4	337	3	334
Southeastern	2,711	1,688	789	899	57	35	22	966	46	920
Tideland	1,622	1,137	414	723	14	2	12	471	22	449
Wayne	1,585	1,125	512	613	10	6	4	450	15	435
Wilson-Greene	1,057	778	340	438	47	24	23	232	15	217
<b>STATE TOTAL</b>	<b>87,857</b>	<b>57,591</b>	<b>23,297</b>	<b>34,294</b>	<b>1,890</b>	<b>1,253</b>	<b>637</b>	<b>28,376</b>	<b>1,726</b>	<b>26,650</b>

#### **TABLE IV**

This table includes selected indicators for all terminations while the proceeding four tables focused on admissions. This table was included since diagnostic classification may change during the course of involvement and final diagnosis should be more accurate.

The relationships described for admission diagnosis remained true for termination diagnoses, although absolute numbers and percentages changed. Alcohol abuse accounted for 16.6 percent of terminations. Adjustment disorders accounted for 9.6 percent of terminations versus 9.4 percent of admissions while major depression disorders accounted for 13.9 percent versus 15.1 percent at admission. When comparing diagnosis at admission with diagnosis at termination, the admitting and terminating diagnosis were both at (0.9%) for mental retardation. The diagnosis of drug abuse showed some disparity between admission and termination with 15.6 percent and 16.5 percent respectively.

**TABLE IV**  
**TOTAL TERMINATIONS BY DIAGNOSTIC CATEGORY, RACE, SEX AND AGE**  
**NORTH CAROLINA'S 39 AREA PROGRAMS BY REGION, FY2001-02**

	TOTAL		WESTERN	NORTH CENTRAL	SOUTH CENTRAL	EASTERN
	*PERCENT	NUMBER				
<b>TOTAL TERMINATIONS</b>	100.0%	86,607	22,777	28,855	16,812	18,163
<b>DIAGNOSTIC CATEGORY **</b>						
Mental Retardation	0.9%	768	171	301	115	181
Attention Deficit	3.8%	3,273	747	934	637	955
Conduct	4.6%	3,996	1,068	1,321	715	892
Autism & Pervasive Dev.	0.2%	166	32	46	50	38
Specific Development	1.3%	1,110	312	597	67	134
Other Childhood Disorders	2.5%	2,204	252	443	841	668
Eating and Sleeping Disorders	0.1%	90	20	33	20	17
Medication Induced	0.0%	6	1	3	0	2
Primary Degenerative Dementia	0.3%	263	29	123	37	74
Vascular Dementia	0.1%	113	28	52	12	21
Substance Abuse (Drugs)	15.6%	13,536	3,445	4,526	3,174	2,391
Alcohol Abuse	16.1%	13,947	3,462	3,973	2,861	3,651
Alcohol Related Organic	0.5%	403	119	118	131	35
Other Mental Disorders	0.7%	636	120	265	104	147
Schizophrenic	1.7%	1,470	359	480	296	335
Schizophreniform	0.1%	53	11	21	10	11
Schizoaffective	0.8%	672	170	219	162	121
Delusional	0.2%	146	26	63	27	30
Other Psychotic	1.2%	1,047	246	377	214	210
Bipolar	2.9%	2,513	677	848	573	415
Major Depression	13.9%	12,052	2,930	4,381	2,441	2,300
Dysthymia	2.2%	1,892	513	534	327	518
Anxiety	4.4%	3,834	1,042	1,334	673	785
Somatoform/Factitious	0.1%	68	13	20	17	18
Dissociative	0.0%	32	10	16	3	3
Sexual	0.2%	154	26	52	44	32
Personality & Other Impulses	1.2%	1,026	256	383	120	267
Adjustment	9.6%	8,282	2,150	2,805	1,712	1,615
Other Nonpsychotic/Mental	0.6%	496	182	147	96	71
Other Problems Not Mental	3.8%	3,307	695	1,423	615	574
No Mental Disorder	0.2%	145	46	82	4	13
Diagnosis Deferred	0.3%	276	29	140	14	93
Unknown	10.0%	8,631	3,590	2,795	700	1,546
<b>RACE</b>						
White	62.5%	54,129	17,453	16,835	10,061	9,780
Black	32.4%	28,097	4,598	10,479	5,311	7,709
American Indian	1.1%	927	148	108	578	93
Asian/Pacific Islander	0.3%	276	60	119	58	39
Other	2.8%	2,387	360	902	657	468
Unknown	0.9%	791	158	412	147	74
<b>AGE GROUPS</b>						
00-04	3.3%	2,862	753	652	790	667
05-09	5.7%	4,950	1,175	2,000	834	941
10-14	8.7%	7,522	2,013	2,235	1,419	1,855
15-17	7.5%	6,477	1,838	1,786	1,476	1,377
18-20	6.1%	5,307	1,451	1,714	1,092	1,050
21-24	7.4%	6,445	1,686	2,299	1,228	1,232
25-34	19.1%	16,536	4,456	5,663	3,226	3,191
35-44	21.1%	18,294	4,909	6,074	3,538	3,773
45-54	12.3%	10,641	2,724	3,592	1,924	2,401
55-64	4.7%	4,108	1,042	1,460	729	877
65 AND OVER	4.0%	3,465	730	1,380	556	799
<b>SEX</b>						
Male	56.4%	48,810	12,723	16,232	9,405	10,450
Female	43.6%	37,766	10,047	12,608	7,403	7,708
Unknown	0.0%	31	7	15	4	5

\*TOTALS DO NOT ALWAYS EQUAL 100 % DUE TO ROUNDING \*\*DERIVED FROM DSM-IV CODING